



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### LAKE ERIE

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>					
<b>Ripley Ny</b>	<b>06 2200EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>					
<b>Geneva-On-The-Lake to Conneaut</b>	<b>06 2200EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

<b>LEZ169</b>	<b>Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border</b>					
<b>Conneaut to Ripley Ny</b>	<b>06 2200EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

<b>LEZ168</b>	<b>Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border</b>					
<b>Geneva-On-The-Lake to Conneaut</b>	<b>06 2200EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

<b>LEZ167</b>	<b>Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border</b>					
<b>Willowick to Geneva-On-The-Lake</b>	<b>06 2200EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

A strong thunderstorm moved quickly east across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ146</b>	<b>Avon Point To Willowick Oh</b>					
<b>Avon Point to Willowick</b>	<b>06 2245EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>07 0000EST</b>					

<b>LEZ166</b>	<b>Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border</b>					
<b>Avon Point to Willowick</b>	<b>06 2245EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>07 0000EST</b>					

<b>LEZ164</b>	<b>Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border</b>					
<b>The Islands to Vermilion</b>	<b>06 2245EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>07 0000EST</b>					

<b>LEZ165</b>	<b>Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border</b>					
<b>Vermilion to Avon Point</b>	<b>06 2245EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>07 0000EST</b>					

<b>LEZ147</b>	<b>Willowick To Geneva On The Lake Oh</b>					
<b>Willowick to Geneva-On-The-Lake</b>	<b>06 2245EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>07 0000EST</b>					

A strong thunderstorm moved northeast across Lake Erie and produced wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>					
<b>Ripley Ny</b>	<b>08 1930EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>1945EST</b>					

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>					
<b>Geneva-On-The-Lake to Conneaut</b>	<b>08 1930EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>1945EST</b>					

A line of strong thunderstorms moved southeast across Lake Erie and produced wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>					
<b>Ripley Ny</b>	<b>08 2140EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

<b>LEZ169</b>	<b>Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border</b>					
<b>Conneaut to Ripley Ny</b>	<b>08 2140EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>
	<b>2300EST</b>					

A strong thunderstorm moved southeast across Lake Erie and produced wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>					
<b>Ripley Ny</b>	<b>09 0300EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (MG35)</b>
	<b>0330EST</b>					

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>					
<b>Geneva-On-The-Lake to</b>	<b>09 0300EST</b>			<b>0</b>	<b>0</b>	<b>Marine Tstm Wind (EG35)</b>



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LAKE ERIE								
Conneaut		0330EST						
LEZ169	Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border							
Conneaut to Ripley Ny	09	0300EST 0330EST			0	0		Marine Tstm Wind (EG35)
LEZ168	Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border							
Geneva-On-The-Lake to Conneaut	09	0300EST 0330EST			0	0		Marine Tstm Wind (EG35)
Strong thunderstorms moved across Lake Erie and produced wind gusts of 35 knots and greater. A 35 knot gust was measured just inland from Lake Erie at Erie International Airport.								
LEZ162	Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border							
Maumee Bay to Reno Beach	09	1825EST 1945EST			0	0		Marine Tstm Wind (EG35)
LEZ163	Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border							
Reno Beach to The Islands	09	1825EST 1945EST			0	0		Marine Tstm Wind (EG35)
LEZ142	Maumee Bay To Reno Beach Oh							
Maumee Bay to Reno Beach	09	1825EST 1945EST			0	0		Marine Tstm Wind (EG35)
LEZ143	Reno Beach To The Islands Oh							
Reno Beach to The Islands	09	1825EST 1945EST			0	0		Marine Tstm Wind (EG35)
A strong thunderstorm moved northeast across the western basin of Lake Erie and produced wind gusts in excess of 35 knots.								
LEZ146	Avon Point To Willowick Oh							
Avon Point to Willowick	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ166	Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border							
Avon Point to Willowick	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ164	Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border							
The Islands to Vermilion	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ165	Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border							
Vermilion to Avon Point	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ167	Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border							
Willowick to Geneva-On-The-Lake	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ144	The Islands To Vermilion Oh							
The Islands to Vermilion	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ145	Vermilion To Avon Point Oh							
Vermilion to Avon Point	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
LEZ147	Willowick To Geneva On The Lake Oh							
Willowick to Geneva-On-The-Lake	11	1835EST 2000EST			0	0		Marine Tstm Wind (EG35)
A line of strong thunderstorms moved northeast across Lake Erie and produced wind gusts in excess of 35 knots.								
LEZ163	Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border							
Reno Beach to The Islands	18	1415EST 1530EST			0	0		Marine Tstm Wind (EG35)
LEZ164	Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border							
The Islands to Vermilion	18	1415EST 1530EST			0	0		Marine Tstm Wind (EG35)



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### LAKE ERIE

<b>LEZ165</b>	<b>Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border</b>								
Vermilion to Avon Point	18	1415EST 1530EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ143</b>	<b>Reno Beach To The Islands Oh</b>								
Reno Beach to The Islands	18	1415EST 1530EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ144</b>	<b>The Islands To Vermilion Oh</b>								
The Islands to Vermilion	18	1415EST 1530EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ145</b>	<b>Vermilion To Avon Point Oh</b>								
Vermilion to Avon Point	18	1415EST 1530EST			0	0			Marine Tstm Wind (EG35)

Several strong thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>								
Ripley Ny	20	2033EST 2200EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>								
Geneva-On-The-Lake to Conneaut	20	2033EST 2200EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ169</b>	<b>Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border</b>								
Conneaut to Ripley Ny	20	2033EST 2200EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ168</b>	<b>Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border</b>								
Geneva-On-The-Lake to Conneaut	20	2033EST 2200EST			0	0			Marine Tstm Wind (EG35)

A line of strong thunderstorms moved southeast across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>								
Ripley Ny	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>								
Geneva-On-The-Lake to Conneaut	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ169</b>	<b>Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border</b>								
Conneaut to Ripley Ny	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ168</b>	<b>Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border</b>								
Geneva-On-The-Lake to Conneaut	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ167</b>	<b>Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border</b>								
Willowick to Geneva-On-The-Lake	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ147</b>	<b>Willowick To Geneva On The Lake Oh</b>								
Willowick to Geneva-On-The-Lake	20 21	2228EST 0000EST			0	0			Marine Tstm Wind (EG35)

Strong thunderstorms moved southeast across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ146</b>	<b>Avon Point To Willowick Oh</b>								
Avon Point to Willowick	21	0045EST 0300EST			0	0			Marine Tstm Wind (EG35)

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>								
Ripley Ny	21	0045EST 0300EST			0	0			Marine Tstm Wind (EG35)



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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

### LAKE ERIE

LEZ148	Geneva On The Lake Oh To Conneaut Oh							
Geneva-On-The-Lake to Conneaut	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ166	Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border							
Avon Point to Willowick	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ169	Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border							
Conneaut to Ripley Ny	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ162	Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border							
Maumee Bay to Reno Beach	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ168	Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border							
Geneva-On-The-Lake to Conneaut	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ163	Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border							
Reno Beach to The Islands	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ164	Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border							
The Islands to Vermilion	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ165	Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border							
Vermilion to Avon Point	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ167	Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border							
Willowick to Geneva-On-The-Lake	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ142	Maumee Bay To Reno Beach Oh							
Maumee Bay to Reno Beach	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ143	Reno Beach To The Islands Oh							
Reno Beach to The Islands	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ144	The Islands To Vermilion Oh							
The Islands to Vermilion	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ145	Vermilion To Avon Point Oh							
Vermilion to Avon Point	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
LEZ147	Willowick To Geneva On The Lake Oh							
Willowick to Geneva-On-The-Lake	21	0045EST 0300EST			0	0		Marine Tstm Wind (EG35)
Thunderstorms moved east across Lake Erie and produced wind gusts in excess of 35 knots.								
LEZ149	Conneaut Oh To Ripley Ny							
Ripley Ny	23	0603EST 0606EST			0	0		Waterspout
LEZ169	Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border							
Conneaut to Ripley Ny	23	0603EST 0606EST			0	0		Waterspout
A waterspout was observed on Lake Erie offshore from North East. No damage occurred								
LEZ149	Conneaut Oh To Ripley Ny							
Ripley Ny	23	0615EST 0620EST			0	0		Waterspout
LEZ169	Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border							
Conneaut to Ripley Ny	23	0615EST 0620EST			0	0		Waterspout



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### LAKE ERIE

A waterspout was observed on Lake Erie offshore from North East. No damage was reported.

<b>LEZ163</b>	<b>Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border</b>							
Reno Beach to The Islands	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ164</b>	<b>Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border</b>							
The Islands to Vermilion	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ165</b>	<b>Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border</b>							
Vermilion to Avon Point	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ143</b>	<b>Reno Beach To The Islands Oh</b>							
Reno Beach to The Islands	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ144</b>	<b>The Islands To Vermilion Oh</b>							
The Islands to Vermilion	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ145</b>	<b>Vermilion To Avon Point Oh</b>							
Vermilion to Avon Point	23	2210EST 2330EST			0	0		Marine Tstm Wind (EG35)

A line of strong thunderstorms moved east across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ146</b>	<b>Avon Point To Willowick Oh</b>							
Avon Point to Willowick	23 24	2245EST 0030EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ166</b>	<b>Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border</b>							
Avon Point to Willowick	23 24	2245EST 0030EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ167</b>	<b>Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border</b>							
Willowick to Geneva-On-The-Lake	23 24	2245EST 0030EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ147</b>	<b>Willowick To Geneva On The Lake Oh</b>							
Willowick to Geneva-On-The-Lake	23 24	2245EST 0030EST			0	0		Marine Tstm Wind (EG35)

A line of thunderstorms moved east across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ149</b>	<b>Conneaut Oh To Ripley Ny</b>							
Ripley Ny	23 24	2315EST 0130EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ148</b>	<b>Geneva On The Lake Oh To Conneaut Oh</b>							
Geneva-On-The-Lake to Conneaut	23 24	2315EST 0130EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ169</b>	<b>Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border</b>							
Conneaut to Ripley Ny	23 24	2315EST 0130EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ168</b>	<b>Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border</b>							
Geneva-On-The-Lake to Conneaut	23 24	2315EST 0130EST			0	0		Marine Tstm Wind (EG35)

A line of strong thunderstorms moved east across Lake Erie and produced estimated winds in excess of 35 knots.

<b>LEZ162</b>	<b>Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border</b>							
Maumee Bay to Reno Beach	27	1805EST 1930EST			0	0		Marine Tstm Wind (EG35)

<b>LEZ163</b>	<b>Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border</b>							
Reno Beach to The Islands	27	1805EST 1930EST			0	0		Marine Tstm Wind (EG35)



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### LAKE ERIE

<b>LEZ164</b> The Islands to Vermilion	Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border 27    1805EST 1930EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ142</b> Maumee Bay to Reno Beach	Maumee Bay To Reno Beach Oh 27    1805EST 1930EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ143</b> Reno Beach to The Islands	Reno Beach To The Islands Oh 27    1805EST 1930EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ144</b> The Islands to Vermilion	The Islands To Vermilion Oh 27    1805EST 1930EST	0    0	Marine Tstm Wind (EG35)
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Strong thunderstorms moved east across the western basin of Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ149</b> Ripley Ny	Conneaut Oh To Ripley Ny 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ148</b> Geneva-On-The-Lake to Conneaut	Geneva On The Lake Oh To Conneaut Oh 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ169</b> Conneaut to Ripley Ny	Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ168</b> Geneva-On-The-Lake to Conneaut	Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ167</b> Willowick to Geneva-On-The-Lake	Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ147</b> Willowick to Geneva-On-The-Lake	Willowick To Geneva On The Lake Oh 27    1955EST 2100EST	0    0	Marine Tstm Wind (EG35)
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Strong thunderstorms moved southeast across Lake Erie and produced estimated wind gusts in excess of 35 knots.

<b>LEZ146</b> Avon Point to Willowick	Avon Point To Willowick Oh 27    2055EST 2215EST	0    0	Marine Tstm Wind (MG38)
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<b>LEZ166</b> Avon Point to Willowick	Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border 27    2055EST 2215EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ165</b> Vermilion to Avon Point	Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border 27    2055EST 2215EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ145</b> Vermilion to Avon Point	Vermilion To Avon Point Oh 27    2055EST 2215EST	0    0	Marine Tstm Wind (EG35)
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Strong thunderstorms moved southeast across Lake Erie and produced wind gusts in excess of 35 knots. A 38 knot thunderstorm wind gust was measured at Cleveland Burke Lakefront Airport.

<b>LEZ162</b> Maumee Bay to Reno Beach	Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border 30    1645EST 1830EST	0    0	Marine Tstm Wind (EG35)
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<b>LEZ163</b> Reno Beach to The Islands	Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border 30    1645EST 1830EST	0    0	Marine Tstm Wind (EG35)
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					Killed	Injured	Property Crops	

### LAKE ERIE

<b>LEZ164</b>	<b>Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border</b>							
<b>The Islands to Vermilion</b>	<b>30</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>		<b>Marine Tstm Wind (EG35)</b>
		<b>1830EST</b>						
<b>LEZ142</b>	<b>Maumee Bay To Reno Beach Oh</b>							
<b>Maumee Bay to Reno Beach</b>	<b>30</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>		<b>Marine Tstm Wind (EG35)</b>
		<b>1830EST</b>						
<b>LEZ143</b>	<b>Reno Beach To The Islands Oh</b>							
<b>Reno Beach to The Islands</b>	<b>30</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>		<b>Marine Tstm Wind (EG35)</b>
		<b>1830EST</b>						
<b>LEZ144</b>	<b>The Islands To Vermilion Oh</b>							
<b>The Islands to Vermilion</b>	<b>30</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>		<b>Marine Tstm Wind (EG35)</b>
		<b>1830EST</b>						

A line of strong to severe thunderstorms moved east across Lake Erie and produced estimated wind gusts in excess of 35 knots.

### OHIO, North

Marion County								
Prospect	01	1620EST			0	0		Hail(1.00)
Quarter size hail was observed three miles west of Prospect.								
Wayne County								
Congress	01	1825EST			0	0	1K	Thunderstorm Wind (EG50)
Thunderstorm winds downed one tree.								
Medina County								
Medina	01	1845EST			0	0	2K	Thunderstorm Wind (EG50)
Thunderstorm winds downed a couple large tree limbs.								
Lucas County								
Toledo	07	0206EST			0	0		Hail(0.75)
Penny size hail was observed.								
Ottawa County								
Williston	07	0615EST			0	0		Hail(0.75)
Penny size hail was observed.								
Huron County								
Wakeman	07	0622EST			0	0		Hail(0.75)
Penny size hail was observed.								
Lorain County								
Wellington	07	0640EST			0	0		Hail(0.75)
Penny size hail was observed.								
Medina County								
Spencer	07	0645EST			0	0		Hail(0.75)
Penny size hail was observed.								
Medina County								
Medina	07	0700EST			0	0		Hail(0.75)
Penny size hail was observed six miles south of Medina.								
Medina County								
Medina	07	0705EST			0	0		Hail(0.75)
Penny size hail was observed.								
Hancock County								
Findlay	07	0735EST			0	0	2K	Hail(1.00)
Penny to quarter size hail was observed.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

									May 2004
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property Crops	Character of Storm	
<b><u>OHIO, North</u></b>									
<b>Hancock County</b>									
<b>Vanlue</b>	<b>07</b>	<b>0747EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail(1.00)</b>	
		Quarter size hail was observed.							
<b>Wyandot County</b>									
<b>Carey</b>	<b>07</b>	<b>0755EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Knox County</b>									
<b>Fredericktown</b>	<b>07</b>	<b>0943EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>	<b>Hail(1.00)</b>	
		Penny to quarter size hail was observed.							
<b>Marion County</b>									
<b>Marion</b>	<b>07</b>	<b>1108EST</b>			<b>0</b>	<b>0</b>		<b>Hail(1.00)</b>	
		Penny to quarter size hail was observed.							
<b>Marion County</b>									
<b>Big Is</b>	<b>07</b>	<b>1112EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Marion County</b>									
<b>Meeker</b>	<b>07</b>	<b>1300EST 1430EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>	<b>Flash Flood</b>	
		Thunderstorms dumped up to three inches of rain on the northwestern portion of Marion County. The worst flooding occurred in the Meeker area after a couple small streams left their banks. Several roads had to be closed in this area.							
<b>Lucas County</b>									
<b>Toledo</b>	<b>09</b>	<b>1810EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Summit County</b>									
<b>Akron</b>	<b>10</b>	<b>0709EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Summit County</b>									
<b>Fairlawn</b>	<b>10</b>	<b>0709EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Crawford County</b>									
<b>Bucyrus</b>	<b>10</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind (EG50)</b>	
		Thunderstorm winds downed one tree and one large limb eight miles northeast of Bucyrus in Liberty Township.							
<b>Summit County</b>									
<b>Mogadore</b>	<b>10</b>	<b>2020EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							
<b>Medina County</b>									
<b>Medina</b>	<b>11</b>	<b>1910EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>	<b>Thunderstorm Wind (EG50)</b>	
		Thunderstorm winds downed two trees.							
<b>Wyandot County</b>									
<b>Carey</b>	<b>17</b>	<b>1430EST</b>			<b>0</b>	<b>0</b>	<b>6K</b>	<b>Thunderstorm Wind (EG50)</b>	
		Thunderstorm winds downed three trees.							
<b>Lucas County</b>									
<b>Whitehouse</b>	<b>17</b>	<b>1440EST</b>			<b>0</b>	<b>0</b>	<b>15K</b>	<b>Thunderstorm Wind (EG50)</b>	
		Thunderstorm winds overturned a recreational vehicle northwest of Whitehouse in Swanton Township.							
<b>Sandusky County</b>									
<b>Fremont</b>	<b>17</b>	<b>1555EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>	
		Penny size hail was observed.							





# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>OHIO, North</u></b>									
<b>Crawford County</b>									
Bucyrus	17	1600EST			0	0	100K		Thunderstorm Wind (MG60)
									A 69 mph thunderstorm wind gust was measured on the east side of Bucyrus. The roof of an apartment building was blown off and dozens of trees nearby were downed.
<b>Richland County</b>									
Mansfield	17	1604EST			0	0	30K		Thunderstorm Wind (EG50)
									Thunderstorm winds blew over a semi truck on the west side of Mansfield.
<b>Richland County</b>									
Mansfield	17	1605EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Richland County</b>									
Mansfield	17	1610EST			0	0			Hail(0.75)
									Penny size hail was observed six miles northeast of Mansfield.
<b>Seneca County</b>									
Bascom to Tiffin	17	1631EST 1638EST			0	0	3K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed a large tree in Bascom and a large limb near Tiffin.
<b>Huron County</b>									
Fitchville	17	1632EST			0	0	3K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed several large tree limbs.
<b>Ashland County</b>									
Ashland	17	1649EST 1651EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Lorain County</b>									
Brighton	17	1650EST 1658EST			0	0	5K		Hail(1.00)
									Penny to quarter size hail was observed.
<b>Sandusky County</b>									
Clyde	17	1650EST			0	0			Hail(1.00)
									Penny to quarter size hail was observed.
<b>Lorain County</b>									
Oberlin	17	1651EST			0	0	35K		Thunderstorm Wind (MG53)
									A 61 mph thunderstorm wind gust was measured in Oberlin. Over a dozen trees were downed.
<b>Lorain County</b>									
Kipton	17	1652EST			0	0	2K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed several large tree limbs.
<b>Erie County</b>									
Castalia	17	1700EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Medina County</b>									
Brunswick	17	1700EST			0	0	2K		Hail(1.00)
									Quarter size hail was observed.
<b>Cuyahoga County</b>									
Seven Hills	17	1705EST			0	0	2K		Hail(1.00)
									Quarter size hail was observed.
<b>Richland County</b>									
Shelby	17	1707EST			0	0			Hail(0.75)
									Penny size hail was observed five miles northeast of Shelby.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

May 2004										
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm	
OHIO, North										
Lorain County										
Elyria	17	1708EST 1715EST			0	0				Hail(0.75)
		Penny size hail was observed.								
Lorain County										
Elyria	17	1708EST 1715EST			0	0	35K			Thunderstorm Wind (EG50)
		Thunderstorm winds downed several trees and large limbs. At least one home and one garage were damaged by fallen trees.								
Lorain County										
North Ridgeville	17	1715EST			0	0				Thunderstorm Wind (EG50)
		Thunderstorm winds toppled a large tree which landed on and destroyed a garage.								
Cuyahoga County										
North Olmsted	17	1717EST			0	0				Hail(0.88)
		Nickel size hail was observed.								
Lorain County										
Grafton	17	1720EST			0	0				Hail(0.75)
		Penny size hail was observed.								
Lorain County										
Eaton Estates	17	1730EST			0	0				Hail(0.75)
		Penny size hail was observed east of Eaton Estates near Columbia Station.								
Cuyahoga County										
Strongsville	17	1748EST 1750EST			0	0	5K			Hail(1.00)
		Penny to quarter size hail was observed.								
Cuyahoga County										
Rocky River	17	1750EST			0	0	15K			Thunderstorm Wind (EG50)
		Thunderstorm winds downed several trees.								
Medina County										
Brunswick	17	1750EST			0	0				Hail(0.75)
		Penny size hail was observed.								
Lorain County										
Oberlin	17	1753EST			0	0	15K			Thunderstorm Wind (EG50)
		Thunderstorm winds downed several large trees and limbs.								
Cuyahoga County										
Strongsville	17	1755EST			0	0	5K			Hail(1.00)
		Quarter size hail was observed.								
Lake County										
Wickliffe	17	1755EST			0	0	2K			Thunderstorm Wind (EG50)
		Thunderstorm winds downed a few large tree limbs.								
Wayne County										
Rittman	17	1758EST			0	0				Hail(0.75)
		Penny size hail was observed.								
Cuyahoga County										
Brecksville	17	1810EST			0	0				Hail(0.75)
		Penny size hail was observed.								
Summit County										
Cuyahoga Falls	17	1815EST 1830EST			0	0	2K			Hail(1.00)
		Quarter size hail was observed.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

May 2004									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
					Killed	Injured	Property	Crops	
<b><u>OHIO, North</u></b>									
<b>Holmes County</b>									
<b>Fryburg</b>	17	1817EST			0	0			Hail(0.75)
	Penny size hail was observed.								
<b>Lorain County</b>									
<b>Avon Lake</b>	17	1817EST			0	0			Hail(0.75)
	Penny size hail was observed.								
<b>Cuyahoga County</b>									
<b>Brecksville</b>	17	1830EST			0	0			Hail(0.75)
	Penny size hail was observed.								
<b>Geauga County</b>									
<b>Newbury</b>	17	1830EST			0	0	2K		Thunderstorm Wind (EG50)
	Thunderstorm winds downed several large tree limbs.								
<b>Geauga County</b>									
<b>Burton</b>	17	1835EST			0	0	1K		Thunderstorm Wind (EG50)
	Thunderstorm winds downed a large tree.								
<b>Stark County</b>									
<b>Countywide</b>	17	1905EST 1935EST			0	0	25M		Hail(2.75)
	A severe thunderstorm producing large hail moved northeast across Stark County and caused significant damage in many areas. Large hail first fell in the Brewster and Beach City areas in southwestern Stark County. Hail as large as golf balls fell for more than five minutes damaging dozens of homes and vehicles in these communities. As the thunderstorm moved northeast, large hail fell over most of Bethlehem and Perry Townships. The Navarre and Massillon areas were especially hard hit as wind driven hail between golf ball and baseball size fell for several minutes. As the parent thunderstorm continued northeast, quarter to tennis ball size hail pounded large sections of Canton, North Canton, East Canton and Louisville. In some areas, the hail accumulated on the ground to nearly a foot in depth. Over 2,000 homes in the county sustained significant hail damage with another 10,000 homes suffering minor damage. Most of the damage was to siding and windows, but several hundred homes in Massillon, Canton and Perry Township also sustained significant roof damage. Several mobile homes were declared total losses. Significant damage was also reported at automobile dealerships in Navarre, Canton and Massillon. Over 2,000 new and used cars were damaged at these dealerships with one dealer alone sustaining \$1.5 million in damages. Thousands of additional vehicles were damaged at businesses and residences in the county.								
<b>Stark County</b>									
<b>Countywide</b>	17	1915EST 1935EST			0	0	100K		Thunderstorm Wind (EG50)
	In addition to the large hail that affected much of Stark County, damaging thunderstorm winds also caused considerable damage. Hundreds of trees were downed with homes damaged by trees throughout the county. In Canton alone, 25 streets were blocked by fallen trees and limbs. Widespread power outages also occurred.								
<b>Trumbull County</b>									
<b>Braceville</b>	17	1920EST			0	0	15K		Thunderstorm Wind (EG50)
	Thunderstorm winds downed several trees.								
<b>Holmes County</b>									
<b>Winesburg</b>	17	1930EST			0	0	15K		Thunderstorm Wind (EG50)
	Thunderstorm winds downed several trees.								
<b>Mahoning County</b>									
<b>North Jackson</b>	17	2015EST			0	0	2K		Thunderstorm Wind (EG50)
	Thunderstorm winds downed several large tree limbs.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<b><u>OHIO, North</u></b>							
<b>Knox County</b>							
Countywide	18	1128EST 1145EST			0 0	100K	Thunderstorm Wind (EG50)
Thunderstorm winds downed trees and large limbs throughout the county. The roof of a lumber yard building in Mount Vernon was torn off. A second building nearby also sustained some damage.							
<b>Morrow County</b>							
Marengo	18	1422EST			0 0		Hail(0.88)
Nickel size hail was observed near Marengo.							
<b>Wyandot County</b>							
Upper Sandusky	18	1422EST			0 0	20K	Thunderstorm Wind (EG50)
Thunderstorm winds tore the roof off of a barn approximately three miles east of Upper Sandusky. A couple trees were also downed.							
<b>Marion County</b>							
Marion	18	1430EST			0 0	15K	Thunderstorm Wind (EG50)
Thunderstorm winds downed a few trees and overturned a camper trailer.							
<b>Morrow County</b>							
Mt Gilead	18	1430EST			0 0		Hail(0.75)
Penny size hail was observed.							
<b>Crawford County</b>							
Bucyrus	18	1448EST			0 0	30K	Thunderstorm Wind (EG50)
Thunderstorm winds downed several trees and large limbs. A house and and at least one car were damaged by fallen trees.							
<b>Lorain County</b>							
Eaton Estates	18	1452EST			0 0		Hail(0.75)
Penny size hail was observed four miles east of Eaton Estates in Columbia Station.							
<b>Medina County</b>							
Brunswick	18	1455EST			0 0		Hail(0.75)
Penny size hail was observed.							
<b>Wyandot County</b>							
Upper Sandusky	18	1515EST			0 0		Hail(0.75)
Penny size hail was observed.							
<b>Huron County</b>							
Greenwich	18	1520EST			0 0	10K	Thunderstorm Wind (EG50)
Thunderstorm winds downed a few trees in and around Greenwich.							
<b>Knox County</b>							
Countywide	18	1530EST			0 0	25K	Thunderstorm Wind (EG50)
Thunderstorm winds downed many trees across the county.							
<b>Summit County</b>							
Cuyahoga Falls	18	1545EST			0 0	40K	Thunderstorm Wind (EG52)
Thunderstorm winds estimated at 60 mph downed several trees. At least one home was damaged by fallen trees.							
<b>Summit County</b>							
Tallmadge	18	1549EST			0 0	10K	Thunderstorm Wind (EG50)
Thunderstorm winds downed several trees.							
<b>Stark County</b>							
Canton	18	1555EST			0 0	75K	Thunderstorm Wind (EG50)
Thunderstorm winds downed around two dozen trees. At least four homes were damaged by fallen trees.							



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>OHIO, North</u></b>									
<b>Lorain County</b>									
Penfield	18	1600EST			0	0	2K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed several large trees.						
<b>Portage County</b>									
Kent	18	1600EST			0	0	4K		Thunderstorm Wind (EG50)
			Thunderstorm winds toppled two large trees.						
<b>Medina County</b>									
Chatham	18	1611EST			0	0	2K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed several large tree limbs north of Chatham in Litchfield Township						
<b>Morrow County</b>									
Mt Gilead	18	1627EST			0	0			Hail(0.75)
			Penny size hail was observed.						
<b>OHZ010</b>									
Lorain	18	1855EST			0	0	50K		Flood
		2200EST							
			Thunderstorms dumped over an inch of rain on already saturated ground causing several small streams and creeks to leave their banks. A spotter in Lagrange recorded 1.3 inches of rain in an hour during the early evening hours. Widespread lowland flooding also occurred in the county. State Route 83 had to be closed near Grafton due to flooding. Other roads were closed in Lagrange Township.						
<b>OHZ036</b>									
Marion	18	1900EST			0	0	50K		Flood
		2300EST							
			Thunderstorms dumped one to two inches of rain on already saturated ground. 1.34 inches of rain was recorded at the Marion County Airport. Several streams and rivers in the county went into flood causing several roads to be closed. Widespread lowland flooding also occurred.						
<b>Lake County</b>									
Painesville	21	0125EST			0	0	3K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed two trees.						
<b>Huron County</b>									
Wakeman	21	0130EST			0	0	25K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed several trees. A business in Wakeman was damaged by a fallen tree.						
<b>Lorain County</b>									
Oberlin	21	0155EST			0	0	2K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed a large tree west of Oberlin.						
<b>Cuyahoga County</b>									
Westlake	21	0200EST			0	0	3K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed two trees.						
<b>Lorain County</b>									
La Grange	21	0200EST			0	0	2K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed a large tree.						
<b>Summit County</b>									
Bath	21	0215EST			0	0	3K		Thunderstorm Wind (EG50)
			Thunderstorm winds downed two trees.						
<b>Summit County</b>									
Countywide	21	0226EST			0	0	2.4M		Flash Flood
		0445EST							
			Thunderstorms dumped torrential rains on Summit County during the early morning hours of May 21st resulting in widespread street and lowland flooding. The heaviest rain fell between 2 and 5 a.m. Over two inches of rain fell across much of northern Summit						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### OHIO, North

County. The worst flooding occurred in Cuyahoga Falls and Stow where many roads were either flooded or washed out. Over 200 homes were damaged by flooding in Cuyahoga Falls after the Cuyahoga River left its banks. Dozens of additional homes were damaged in Stow. Flood waters on some roads were over two feet in depth. Many cars became stranded in the flood waters.

#### **Crawford County Countywide**

21	0230EST 0415EST	0	0	500K	Flash Flood
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Thunderstorms dumped between two and three inches of rain on Crawford County during the early morning hours of May 21st. Spotters measured 1.1 inches of rain in 30 minutes during the peak of the storm. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding. Dozens of homes in the county sustained flood damage and several roads were either washed out or flooded.

#### **Wyandot County Countywide**

21	0254EST 0415EST	0	0	750K	Flash Flood
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Thunderstorms dumped up to three inches of rain on Wyandot County during the early morning hours of May 21st. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding. Over a dozen roads in the county were either washed out or flooded. Many homes sustained flood damage.

#### **Seneca County Countywide**

21	0300EST 0415EST	0	0	400K	Flash Flood
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Thunderstorms dumped between two and three inches of rain on Seneca County during the early morning hours of May 21st. A cooperative observer in Tiffin measured 2.36 inches of rain. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding. Several roads in the county were either washed out or flooded. Many homes sustained flood damage.

#### **Stark County Countywide**

21	0310EST	0	0	5K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a few large tree limbs across the county.

#### **Wayne County Wooster**

21	0310EST	0	0	4K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed several large tree limbs.

#### **Mahoning County Sebring**

21	0315EST	0	0	10K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed several large trees.

#### **Summit County Hudson**

21	0315EST	0	0	Hail(0.75)
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Penny size hail was observed.

#### **Medina County Countywide**

21	0320EST 0445EST	0	0	4.2M	Flash Flood
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Thunderstorms dumped torrential rains on Medina County during the early morning hours of May 21st resulting in the worst flooding seen in the county since 1969. The northern portion of the county including the Brunswick area was especially hard hit. Heavy rain fell between 2 and 5 a.m. and caused several small streams to leave their banks. Rainfall rates were between one and two inches per hour with storm totals of up to three inches measured by spotters in both Brunswick and Hinckley. Bucket surveys indicate that as much as 4 to 5 inches of rain may have fallen in some areas. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding. Over 120 homes sustained significant damage from flooding in Brunswick. Residents of several of these homes had to be evacuated around 5 a.m. Dozens of roads had to be closed in the northern portion of the county with water on some Brunswick streets as much as two and a half feet deep. Many automobiles became trapped in the flood waters. Rainfall totals of two to three inches were also reported near Chippewa Lake where extensive flooding occurred at Gloria Glens Park. Approximately 25 people had to be evacuated from Gloria Glens Village. Flood waters were up to two feet deep on the ground floors of some of the homes in the village. Widespread street flooding was also reported in Medina where at least three automobiles became stranded. Hundreds of homes elsewhere across Medina County experienced basement flooding.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### OHIO, North

#### Stark County

##### Alliance

**21 0350EST 0 0 150K Thunderstorm Wind (EG50)**

Thunderstorm winds caused considerable damage in Alliance and adjacent Washington Township. Dozens of trees were downed in these areas. A house just south of Alliance was heavily damaged by a fallen tree. Several barns in Washington Township lost portions of roof and a couple mobile homes were also damaged.

#### Lorain County

##### Countywide

**21 0351EST 0 0 12.4M Flash Flood**  
**0445EST**

Thunderstorms dumped torrential rains on Lorain County during the early morning hours of May 21st resulting in the worst flooding seen in the county since 1969. The southern portion of the county and especially the Wellington, Oberlin and Lagrange areas were very hard hit. Heavy rain between 2 and 5 a.m. caused the west branch of the Black River and its tributaries to leave their banks. Rainfall rates were in excess of two inches per hour during the peak of the storm. Just over five inches of rain was measured at the water treatment plant in Lagrange with numerous three inch reports received from both the Wellington and Oberlin areas. Bucket surveys from the area indicate that as much as six inches of rain may have fallen in some parts of the county. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding. Dozens of roads in southern Lorain County had to be closed. State Route 18 near Wellington was under as much as three feet of water at times. Dozens of people had to be evacuated from their homes along the Black River due to the rapidly rising water levels. Several residents had to be evacuated from their homes along Baumhart Road near Amherst. Just over 500 homes were damaged by flooding in the county. Major damage occurred to 27 homes with six others damaged enough to be declared destroyed. Hundreds of additional homes suffered basement flooding. Many roads and culverts were washed out and at least three school buildings sustained flood damage. The worst damaged of the schools was Firelands High School which had part of its roof collapse.

#### OHZ010

##### Lorain

**21 0600EST 0 0 500K Flood**  
**23 0600EST**

Heavy thunderstorm rains fell on most of Lorain County on May 21st and 22nd. Runoff from these rains caused rapid rises in both the West and East Branches of the Black River. The river crested at 17 feet in Elyria. This stage was the highest recorded since July of 1969. Widespread flooding occurred along the river with some of the worst damage in the Wellington and Lagrange areas where flash flooding occurred during the predawn hours of May 21st. Dozens of homes along the river were damaged and many roads had to be closed because of flooding.

#### Lucas County

##### Countywide

**21 1330EST 0 0 100K Thunderstorm Wind (EG50)**  
**1345EST**

A line of severe thunderstorms moved across Lucas County and downed dozens of trees. Scattered power outages were also reported. A few homes and vehicles were damaged by fallen trees and flying debris.

#### Wood County

##### Countywide

**21 1332EST 0 0 100K Thunderstorm Wind (MG58)**  
**1415EST**

A line of severe thunderstorms moved across Wood County and downed dozens of trees. Scattered power outages were also reported. A 67 mph wind gust was measured at the Bowling Green water treatment plant. A few homes and vehicles were damaged by fallen trees and flying debris.

#### Sandusky County

##### Woodville

**21 1400EST 0 0 5K Thunderstorm Wind (EG50)**

Thunderstorm winds downed a few large tree limbs.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>OHIO, North</u></b>									
<b>Ottawa County</b>									
Countywide	21	1410EST 1430EST			0	0	50K		Thunderstorm Wind (EG50)
A line of severe thunderstorms moved across Ottawa County and downed a couple dozen trees. A few power outages were also reported.									
<b>Erie County</b>									
Countywide	21	1425EST 1445EST			0	0	50K		Thunderstorm Wind (EG52)
A line of severe thunderstorms moved across Erie County and downed a few dozen trees. Scattered power outages were also reported. A spotter in Vermilion estimated winds at 60 mph.									
<b>Seneca County</b>									
Countywide	21	1425EST 1445EST			0	0	75K		Thunderstorm Wind (EG50)
A line of severe thunderstorms moved across Seneca County and downed dozens of trees. Scattered power outages were also reported. A few homes and vehicles were damaged by fallen trees and flying debris in Tiffin and Fostoria.									
<b>Hancock County</b>									
Countywide	21	1430EST 1450EST			0	0	100K		Thunderstorm Wind (EG50)
A line of severe thunderstorms moved across Hancock County and downed dozens of trees. Scattered power outages were also reported. A few homes and vehicles were damaged by fallen trees and flying debris. Most of this damage occurred in the southern half of the county.									
<b>Lorain County</b>									
Countywide	21	1435EST 1505EST			0	0	150K		Thunderstorm Wind (MG53)
A line of severe thunderstorms moved across Lorain County and downed downed trees and large limbs countywide. A spotter measured a 61 mph gusts in Amherst. Scattered power outages occurred.									
<b>Huron County</b>									
Countywide	21	1440EST			0	0	125K		Thunderstorm Wind (EG50)
A line of severe thunderstorms moved across Huron County and downed dozens of trees. Scattered power outages were also reported. Most of the damage was in the eastern half of the county. A few homes and vehicles were damaged by fallen trees and flying debris.									
<b>Crawford County</b>									
Countywide	21	1450EST 1510EST			0	0	175K		Thunderstorm Wind (EG61)
A line of severe thunderstorms moved across Crawford County and downed over 100 trees. Scattered power outages were also reported. Some of the worst damage in the county occurred near Galion where spotters estimated winds at 70 mph. Several homes were damaged by fallen trees in that area. A few vehicles were also damaged in the county.									
<b>Wyandot County</b>									
Countywide	21	1450EST 1515EST			0	0	75K		Thunderstorm Wind (EG50)
A line of severe thunderstorms moved across Wyandot County and downed dozens of trees. Scattered power outages were also reported.									
<b>Richland County</b>									
Countywide	21	1500EST 1535EST			0	0	700K		Thunderstorm Wind (MG52)
A line of severe thunderstorms moved across Richland County and downed hundreds of trees. Scattered power outages were also reported. A 60 mph wind gust was measured at Mansfield Lahm Airport at 4:06 p.m. Some of the worst damage in the county occurred near Lexington where a campground had four buildings damaged and 500 trees downed. Around 250 trees were toppled in a park near the southeast end of Clear Fork Reservoir. A business near downtown Mansfield lost part of it's roof. Dozens of homes and buildings in the county were damaged by fallen trees and flying debris. Damage to vehicles was also reported throughout the									





# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property	Crops
<b><u>OHIO, North</u></b>								
county.								
<b>Richland County</b>								
Olivesburg	21	1502EST	0	0	0	0	0	<b>Tornado (F0)</b>
Law enforcement officers witnessed a tornado touch down in a field along Clayburg Road in northern Weller Township. This location is approximately three miles northwest of Olivesburg. The tornado was only briefly on the ground and caused no damage.								
<b>Cuyahoga County</b>								
Countywide	21	1505EST 1530EST			0	0	1M	<b>Thunderstorm Wind (MG70)</b>
A line of severe thunderstorms moved across Cuyahoga County and caused widespread damage and power outages. A spotter in Garfield Heights measured an 81 mph wind gust. Hundreds of trees were downed across the county. Many homes and vehicles were damaged by fallen trees and flying debris. The roof of a building at Cleveland Hopkins International Airport was torn off and thrown several hundred yards. Up to 400,000 people in the county were without power just after the storm passed. Power was not completely restored to all areas until early on May 24th.								
<b>Medina County</b>								
Countywide	21	1509EST 1540EST			0	0	150K	<b>Thunderstorm Wind (EG50)</b>
A line of severe thunderstorms moved across Medina County and downed dozens of trees. Scattered power outages were also reported. Most of the damage was in the central and southern portions of the county. Several homes and vehicles were damaged by fallen trees and flying debris.								
<b>Morrow County</b>								
Countywide	21	1514EST 1535EST			0	0	100K	<b>Thunderstorm Wind (EG50)</b>
A line of severe thunderstorms moved across Morrow County and downed dozens of trees. Scattered power outages were also reported. A few homes and vehicles were damaged by fallen trees.								
<b>Ashland County</b>								
Countywide	21	1515EST 1535EST			0	0	125K	<b>Thunderstorm Wind (EG50)</b>
A line of severe thunderstorms moved across Ashland County and downed dozens of trees. Scattered power outages were also reported. Some of the worst damage in the county occurred near Loudonville where several homes were damaged and at least two highways blocked by fallen trees. A few vehicles were damaged by fallen trees and flying debris.								
<b>Marion County</b>								
Countywide	21	1515EST 1545EST			0	0	150K	<b>Thunderstorm Wind (EG50)</b>
A line of severe thunderstorms moved across Marion County and downed dozens of trees. Scattered power outages were also reported. Several homes, including at least one in Marion, sustained damage during the storm.								
<b>Knox County</b>								
Countywide	21	1520EST 1555EST			0	0	250K	<b>Thunderstorm Wind (EG50)</b>
A line of severe thunderstorms moved across Knox County and caused widespread damage and scattered power outages. The Gambier area was the hardest hit with over 100 trees downed and several homes damaged. There was also a lot of damage in the Mount Vernon, Apple Valley, Danville and Howard areas with many homes damaged. Several automobiles in the county were also damaged by fallen trees and limbs.								
<b>Summit County</b>								
Countywide	21	1520EST 1550EST			0	0	750K	<b>Thunderstorm Wind (MG52)</b>
A line of severe thunderstorms moved across Summit County and downed hundreds of trees and caused widespread power outages.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### OHIO, North

The Stow and Cuyahoga Falls areas were especially hard hit with many homes and vehicles damaged by fallen trees. A spotter in Stow measured a 60 mph gust at 4:25 p.m. Dozens of other homes and vehicles were damaged elsewhere in the county. Tens of thousands of customers lost power during this storm.

#### **Wayne County Countywide**

21	1525EST 1540EST	0	0	200K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Wayne County and downed hundreds of trees. Scattered power outages were also reported. The most significant damage in the county occurred in Chippewa and Milton Townships where several homes and vehicles were damaged. A few other homes were damaged elsewhere in the county.

#### **Wayne County Creston**

21	1520EST	0	0	75K	Hail(1.50)
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Penny to walnut size hail was observed. Many vehicles were damaged by the hail.

#### **Geauga County Countywide**

21	1525EST 1600EST	0	0	200K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Geauga County and downed hundreds of trees and caused widespread power outages. The Chagrin Falls area was especially hard hit. One mobile home was destroyed by fallen trees with many other homes and vehicles in the county also heavily damaged.

#### **Holmes County Countywide**

21	1530EST 1600EST	0	0	100K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Holmes County and downed dozens of trees. Scattered power outages were also reported. A few homes and vehicles were damaged in the county by fallen trees.

#### **Lake County Countywide**

21	1530EST 1600EST	0	0	125K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Lake County and downed dozens of trees. Scattered power outages were also reported. Several homes and vehicles were damaged by fallen trees and flying debris.

#### **Portage County Countywide**

21	1530EST 1600EST	0	0	750K	Thunderstorm Wind (MG55)
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A line of severe thunderstorms moved across Portage County and downed hundreds of trees and caused widespread power outages. A spotter measured a 63 mph gust in Ravenna. The southern half of the county, including the Ravenna and Kent areas saw the most extensive damage. Around 100 homes sustained damaged with one mobile home destroyed by fallen trees. Many vehicles were also reported damaged. Several roads had to be closed because of the extensive tree damage. At the peak of the storm, over 7,000 customers were without power.

#### **Stark County Countywide**

21	1545EST 1615EST	0	0	400K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Stark County and downed hundreds of trees and caused widespread power outages. Many homes, businesses and vehicles were damaged by fallen trees. Alliance sustained more damage after being hard hit during the early morning hours. There was also a lot of damage reported in Canton. Over 25,000 people lost power during this storm.

#### **Ashtabula County Countywide**

21	1600EST 1630EST	0	0	175K	Thunderstorm Wind (EG50)
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A line of severe thunderstorms moved across Ashtabula County and downed hundreds of trees and caused widespread power



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### OHIO, North

outages. Several homes and vehicles in the county were damaged by fallen trees.

#### **Mahoning County Countywide**

21	1610EST 1650EST				0	0	300K	<b>Thunderstorm Wind (EG52)</b>
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A line of severe thunderstorms moved across Mahoning County and caused widespread damage and power outages. Trained spotters estimated wind speeds at 60 mph. Dozens of trees were downed across the county with the worst damage in the western half of the county. A business in Youngstown lost a large section of roof with several other buildings and homes in the county also damaged. A few vehicles were damaged by fallen trees and limbs. Over 25,000 customers were without power at the peak of the storm.

#### **Trumbull County Countywide**

21	1615EST 1640EST				0	0	250K	<b>Thunderstorm Wind (EG50)</b>
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A line of severe thunderstorms moved across Trumbull County and caused widespread damage and power outages. Dozens of trees were downed across the county. A large tree fell on a mobile home in Girard trapping the two occupants. Both were rescued and suffered only minor injuries. Several other homes and vehicles in the county sustained damage during the storm.

#### **Lucas County Toledo**

21	1335EST 1340EST				0	0		<b>Hail(0.88)</b>
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Penny to nickel size hail was observed.

#### **Wood County Rossford**

21	1339EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Wood County Perrysburg**

21	1342EST 1343EST				0	0	125K	<b>Hail(1.75)</b>
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Quarter to golf ball size hail was observed. Many cars were damaged.

#### **Ottawa County Port Clinton**

21	1410EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Seneca County Tiffin**

21	1425EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Crawford County Galion**

21	1440EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Lorain County Elyria**

21	1447EST 1448EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Cuyahoga County Bay Vlg**

21	1455EST				0	0		<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Cuyahoga County Fairview**

21	1458EST				0	0	2K	<b>Hail(1.00)</b>
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Quarter size hail was observed.

#### **Cuyahoga County Cleveland**

21	1509EST				0	0	2K	<b>Hail(1.00)</b>
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Quarter size hail was observed.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

									May 2004
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property Crops	Character of Storm	
<b><u>OHIO, North</u></b>									
<b>Seneca County</b>									
Attica	21	1509EST			0	0	2K	Hail(1.00)	
		Quarter size hail was observed.							
<b>Cuyahoga County</b>									
Rocky River	21	1510EST			0	0		Hail(0.88)	
		Nickel size hail was observed.							
<b>Marion County</b>									
Marion	21	1515EST			0	0		Hail(0.88)	
		Nickel size hail was observed northeast of Marion.							
<b>Cuyahoga County</b>									
Oakwood	21	1520EST			0	0		Hail(0.75)	
		Penny size hail was observed.							
<b>Medina County</b>									
Lodi	21	1521EST			0	0	2K	Hail(1.00)	
		Quarter size hail was observed two miles east of Lodi.							
<b>Wayne County</b>									
Rittman	21	1529EST			0	0		Hail(0.88)	
		Penny to nickel size hail was observed.							
<b>Richland County</b>									
Shelby	21	1533EST			0	0	2K	Hail(1.00)	
		Quarter size hail was observed.							
<b>Medina County</b>									
Lodi	21	1540EST			0	0		Hail(0.75)	
		Penny size hail was observed.							
<b>Wayne County</b>									
Wooster	21	1544EST			0	0		Hail(0.75)	
		Penny size hail was observed.							
<b>Stark County</b>									
Waynesburg	21	1556EST			0	0		Hail(0.75)	
		Penny size hail was observed.							
<b>Knox County</b>									
Millwood	21	1558EST			0	0	2K	Hail(1.00)	
		Quarter size hail was observed.							
<b>Ashtabula County</b>									
Orwell	21	1600EST			0	0		Hail(0.75)	
		Penny size hail was observed.							
<b>Wyandot County</b>									
Countywide	21	1518EST 1730EST			0	0	100K	Flash Flood	
		A line of severe thunderstorms moved across Wyandot County and dumped up to an inch of rain on already saturated ground. Streams and rivers in flood or close to flood quickly rose forcing the closure several roads. Many homes and businesses sustained damage from the flooding.							
<b>Lorain County</b>									
Countywide	21	1538EST 1900EST			0	0	250K	Flash Flood	
		A line of severe thunderstorms moved across Lorain County and dumped an inch or more of rain on already saturated ground. For the second time in twelve hours, flash flooding occurred in the county as streams and rivers once again quickly rose. Dozens of roads were flooded and had to be closed. Over a dozens of vehicles were stranded in the flood waters and hundreds of homes sustained damage from lowland or basement flooding.							



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### OHIO, North

#### Cuyahoga County

##### Countywide

21 1548EST 1900EST 0 0 750K Flash Flood

A line of severe thunderstorms moved across Cuyahoga County and dumped an inch or more of rain on already saturated ground. Widespread urban and lowland flooding occurred as several small streams and creeks left their banks. Baldwin Creek flooded on the northwest side of North Royalton damaging 73 homes and forcing the closure of several roads. Significant flooding was also reported in Garfield Heights where several streets had to be closed because of flood waters up to two feet deep. Many street closures were reported elsewhere in the county. Dozens of vehicles were stranded in the flood waters and hundreds of homes experienced basement flooding.

#### Marion County

##### Countywide

21 1550EST 1930EST 0 0 150K Flash Flood

A line of severe thunderstorms moved across Marion County and dumped heavy rain on already saturated ground. Spotters reported between one and two inches of rain during the afternoon storms. Streams and rivers in flood or close to flood quickly rose forcing the closure of several roads. State Route 309 near Marion had to be closed because of flood waters greater than a foot deep. Many homes and businesses sustained damage from the flooding.

#### Medina County

##### Countywide

21 1553EST 1900EST 0 0 300K Flash Flood

A line of severe thunderstorms moved across Medina County and dumped an inch or more of rain on already saturated ground. For the second time in twelve hours, flash flooding occurred in the county as streams and rivers quickly rose. This time, the central and southern portions of the county were hardest hit. Dozens of roads were flooded and had to be closed. Several vehicles were stranded in the flood waters and hundreds of homes sustained damage from lowland or basement flooding.

#### Wayne County

##### North Portion

21 1600EST 1800EST 0 0 1.1M Flash Flood

A line of severe thunderstorms moved across Wayne County during the late afternoon hours and was quickly followed by a second round of storms. Torrential rain fell as this series of storms moved through. Spotters indicated that as much as two inches of rain fell in an hour. The Rittman area saw the worst flooding. Water as much as waist deep filled portions of the town. Many homes and businesses had to be evacuated. A strip mall was heavily damaged after water outside the mall accumulated to over three feet in depth in less than 30 minutes. The glass store fronts in the mall gave way under the weight of the flood waters and flooded the building in minutes. Dozens of roads in northern Wayne County were either washed out or flooded. Hundreds of homes and vehicles were damaged.

#### Knox County

##### Countywide

21 1611EST 2000EST 0 0 600K Flash Flood

A line of severe thunderstorms moved across Knox County and dumped heavy rains on already saturated ground. Spotters reported between one and two inches of rain fell during the afternoon storms. Many streams and rivers in the county quickly went into flood forcing the closure of several roads. At least four bridges in the county were washed out. Flashing flooding near Apple Valley caused a retaining wall to fail. Many homes and businesses sustained damage from the flooding.

#### Ashtabula County

##### Countywide

21 1620EST 2030EST 0 0 750K Flash Flood

A line of severe thunderstorms moved across Ashtabula County during the late afternoon hours and was quickly followed by a



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### OHIO, North

second round of storms. Torrential rain fell as this series of storms moved through. Spotters measured as much as four inches of rain in the southeastern corner of the county. Widespread flooding occurred across southern and central Ashtabula County as several streams and creeks quickly filled and left their banks. Three Brothers Creek went into flood south of Jefferson and washed out a section of State Route 46 between Webster and Holcomb roads just after 7 p.m. Spotters in the area measured 2.25 inches of rain during the storms. Numerous road closures were reported elsewhere in the county with dozens of homes and vehicles damaged by the flood waters. Flood waters were reported to be as much as three feet deep on a couple roads.

#### **Richland County Countywide**

21	1643EST 2000EST	0	0	500K	Flash Flood
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A line of severe thunderstorms moved across Richland County and dumped heavy rain on already saturated ground. Spotters reported that over an inch of rain fell during the afternoon storm. For the day, 1.62 inches of rain was recorded at Mansfield Lahm Airport. Streams and rivers in the county quickly rose forcing the closure of several roads, including a couple state routes. A road was washed out just east of Lexington. Many homes and businesses sustained damage from the flooding.

#### **OHZ011-021**

##### **Cuyahoga - Summit**

21	2000EST	0	0	2.9M	Flood
24	1900EST				

Heavy rains on May 21st and 22nd caused rapid rises in the Cuyahoga River. At Independence, the river went above the flood stage of 16.0 feet around 9 p.m. on the 21st. The river crested at 21.66 feet around 6:30 p.m. on the 22nd and dropped below flood stage at 2 p.m. on the 23rd. At Old Portage, the river went above the flood stage of 9.0 feet at 1:30 a.m. on the 22nd and crested at 13.74 feet at 5 a.m. on the 22nd. The river went below flood stage around 7 p.m. on the 24th. The crest at Old Portage was the highest ever. Over 30 businesses and dozens of homes were damaged along the river in Cuyahoga County. Most these were in the Valley View area where ten people were evacuated from their homes. In Summit County, the worst flooding along the river occurred in Cuyahoga Falls where dozens of homes were also damaged. Many roads, including Canal Road had to be closed because of flooding.

#### **Medina County Medina**

21	2350EST	0	0	Hail(0.88)
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Nickel size hail was observed three miles east of Medina.

#### **Summit County Akron**

22	0000EST	0	0	Hail(0.75)
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Penny size hail was observed on the west side of Akron.

#### **Lorain County Avon Lake**

22	0005EST	0	0	Hail(0.75)
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Penny size hail was observed.

#### **Cuyahoga County Lakewood**

22	0015EST	0	0	4K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a couple of large trees.

#### **Stark County Uniontown**

22	0020EST	0	0	Hail(0.75)
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Penny size hail was observed.

#### **Summit County Cuyahoga Falls**

22	0035EST	0	0	2K	Hail(1.00)
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Quarter size hail was observed.

#### **Summit County Stow**

22	0047EST	0	0	2K	Hail(1.00)
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Quarter size hail was observed.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### OHIO, North

#### Summit County

##### Countywide

22	0056EST 0500EST		0	0	8.1M	Flash Flood
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During the early morning hours of May 22nd, heavy rain producing thunderstorms moved across Summit County for the third time in less than 24 hours. Rainfall totals of one to three inches were common across the county. Rainfall rates with the stronger storms approached two inches per hour. A spotter in Munroe Falls measured 4.53 inches of rain between daybreak on May 21st and daybreak on the 22nd. A cooperative observer in Cuyahoga Falls measured 3.39 inches of rain during that same period. This rain combined with ground already saturated from earlier storms led to the renewal of widespread flooding in the county. The Coventry, Copley, Tallmadge, Cuyahoga Falls, Barberton, Stow and Norton areas were among the worst damaged in the county. Flooding in some of these cities was reported to be the worst in over 30 years. In Barberton and Norton, extensive flooding occurred after Wolf Creek left its banks. A dam on Hudson Run was nearly destroyed after flood waters began flowing around the dam. Water on some streets was reported to be as much as three feet deep. Over \$1 million in damage occurred along Barber Road in Norton after 20 homes and 23 businesses were flooded. Several culverts were washed out in both Norton and Barberton. Several people were evacuated from homes along Pardee and Graham Roads in Stow around 2 a.m. Dozens of roads in the county had to be closed because of washouts or significant flooding. Damage to roads and other government property from the storms on the 21st and 22nd topped \$2.2 million. Hundreds of private residences and businesses sustained flood damage. Initial estimates that as many as 500 homes sustained significant damage. Dozens of vehicles were also damaged.

#### Portage County

##### Kent

22	0100EST		0	0	4K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a couple of trees.

#### Summit County

##### Cuyahoga Falls

22	0130EST		0	0	4K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a couple of large trees.

#### Cuyahoga County

##### Countywide to Collinwood

22	0145EST 0500EST		0	0	5.2M	Flash Flood
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Thunderstorms dumped heavy rains on Cuyahoga County for third time in less than 24 hours during the early morning hours of May 22nd. Areas already saturated from earlier rains saw another one to two inches of rain fall in just a couple hours. The Rocky River quickly rose during the early morning hours causing significant damage. Two very rapid rises in the river occurred. The first one was around 2:45 a.m. and was described by witnesses as a "wall of water" moving down the basin. The second jump in water levels occurred around daybreak. Six marinas along the river were heavily damaged. Piers and docks at the marinas were swept away as were over 100 boats. Around 35 of the boats were found tangled and smashed along a bridge abutment near the mouth of the river. Big Creek also went into flood during the early morning hours causing Brookpark Road to be closed. Widespread urban and lowland flooding occurred elsewhere in the county. Many roads and streets had to be closed because of flood waters up to three feet deep. A spotter in North Royalton measured 1.36 inches of rain during the early morning storm. Damage to roads and other public property from the flash flood events of May 21st and 22nd and from the subsequent flooding along the Cuyahoga River totaled approximately \$3.6 million. 1095 homes in the county sustained flood damage during these events.

#### Medina County

##### Countywide

22	0200EST		0	0	750K	Flash Flood
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# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### OHIO, North

#### **0500EST**

During the early morning hours of May 22nd, heavy rain producing thunderstorms moved across Medina County for the third time in less than 24 hours. Rainfall totals of one to two inches were common across the county and rainfall rates with the stronger storms exceeded an inch per hour. This rain combined with ground already saturated from earlier storms led to the renewal of widespread flooding in the county. Dozens of roads and streets once again became flooded and had to be closed. Several more cars became stranded in the flood waters. Damage to roads and other government property from the storms on the 21st and 22nd was nearly \$500,000. Dozens of homes, businesses and vehicles sustained flood damage.

#### **Lorain County Countywide**

22	0205EST 0500EST	0	0	750K	Flash Flood
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During the early morning hours of May 22nd, heavy rain producing thunderstorms moved across Lorain County for the third time in less than 24 hours. Rainfall totals of one to two inches were common across the county. Rainfall rates with the stronger storms were well in excess of an inch per hour. This rain combined with ground already saturated from earlier storms led to the renewal of widespread flooding in the county. Dozens of roads and streets once again became flooded and had to be closed. Several more cars became stranded in the flood waters. Damage to roads and other government property from the storms on the 21st and 22nd topped \$500,000. Dozens of homes, businesses and vehicles sustained flood damage.

#### **Portage County Countywide**

22	0210EST 0515EST	0	0	2.4M	Flash Flood
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During the early morning hours of May 22nd, heavy rain producing thunderstorms moved across Portage County for the third time in less than 24 hours. Rainfall totals of over three inches were reported in the county with rainfall rates at times approaching two inches per hour. A spotter in Kent measured 3.77 inches of rain between 3 a.m. on May 21st and 3 a.m. on the 22nd. This rain combined with ground already saturated from the earlier storms led to the renewal of widespread flooding in the county. The Kent, Ravenna, Charlestown and Paris Township areas were the worst affected in the county. In Ravenna, 40 people had to be evacuated from a mobile home park after flood waters rose to several feet deep. Several residents in a nearby apartment building also had to be evacuated. Dozens of roads and streets were flooded and had to be closed. Several vehicles became stranded in the flood waters. Damage to roads and other government property from the storms on the 21st and 22nd topped \$750,000. Almost 300 homes and businesses sustained flood damage in the county.

#### **Mahoning County Countywide**

22	0330EST 0615EST	0	0	1.7M	Flash Flood
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Thunderstorms dumped heavy rains on Mahoning County during the early morning hours of May 22nd causing widespread flooding. This was the third round of thunderstorms to affect the county in less than 24 hours. One to three inches of rain fell during the early morning storms. This rain combined with ground already saturated from the earlier storms caused many small streams and creeks to leave their banks. In Poland, Yellow Creek went into flood damaging many homes and a library. The Mahoning River went into flood in Mill Creek Park flooding several roads and stranding several vehicles. Extensive flooding also occurred on the north side of Youngstown. Several roads and bridges were damaged by flooding and over a dozen more roads had to be closed because of flooding. Dozens of homes were damaged by flood waters with ten damaged enough to be declared uninhabitable.





# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>OHIO, North</u></b>									
<b>Ashtabula County</b>									
<b>Pierpont</b>	22	1330EST			0	0	2K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed a tree and one large limb.
<b>Cuyahoga County</b>									
<b>Cleveland Hgts</b>	22	2240EST			0	0	5K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed a few trees.
<b>Geauga County</b>									
<b>Countywide</b>	22	2255EST 2315EST			0	0	50K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed many trees in the county. A couple homes were damaged by fallen trees near Parkman
<b>Trumbull County</b>									
<b>Gustavus</b>	22	2325EST			0	0	20K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed several trees in northern Trumbull County.
<b>Ashtabula County</b>									
<b>Countywide</b>	23	0000EST 0300EST			0	0	100K		Flash Flood
									Heavy rain producing thunderstorms moved across Ashtabula County. Up to an inch of rain fell on ground already saturated from rains the previous few days. Flash flooding resumed in the county after streams and creeks once again quickly rose. Several roads had to be closed because of flood waters up to two feet deep. Several homes and vehicles were damaged.
<b>Hancock County</b>									
<b>Mc Comb</b>	23	1725EST			0	0	5K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed several large tree limbs.
<b>Wood County</b>									
<b>Countywide</b>	23	1735EST 1750EST			0	0	50K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed many trees and large limbs across the county. A house in Perrysburg was damaged by a fallen tree.
<b>Summit County</b>									
<b>Hudson</b>	24	0309EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Portage County</b>									
<b>Ravenna</b>	25	1500EST			0	0	37K		Thunderstorm Wind (EG50)
									Thunderstorm winds caused damage at a cemetery in Ravenna. Fifteen headstones and six trees were toppled.
<b>Lucas County</b>									
<b>Sylvania</b>	27	1744EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Ashtabula County</b>									
<b>Rock Creek</b>	27	2035EST			0	0			Hail(0.75)
									Penny size hail was observed three miles southeast of Rock Creek near Roaming Shores.
<b>Sandusky County</b>									
<b>Lindsey</b>	27	2115EST			0	0			Hail(0.75)
									Penny size hail was observed.
<b>Lucas County</b>									
<b>Berkey</b>	30	1700EST			0	0	6K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed a few trees.
<b>Seneca County</b>									
<b>Fostoria</b>	30	1742EST			0	0	2K		Thunderstorm Wind (EG50)
									Thunderstorm winds downed a large tree.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### OHIO, North

#### Hancock County

Arlington	30	1805EST			0	0	3K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed one tree and several large limbs.

#### Crawford County

Countywide	30	1835EST 1905EST			0	0	35K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed around two dozen trees across the county.

#### Huron County

Willard	30	1840EST			0	0	3K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a few large tree limbs.

#### Wyandot County

Nevada	30	1843EST			0	0	7K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed one tree and one utility pole.

#### Marion County

Marion	30	1905EST			0	0	3K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a few large tree limbs.

#### Morrow County

Blooming Grove	30	1930EST			0	0	15K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed several trees.

#### Richland County

Ontario	30	1935EST			0	0	5K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed several large tree limbs a mile west of Ontario.

#### Seneca County

New Riegel	30	1938EST			0	0	2K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed one large tree.

#### Knox County

Gambier	30	2015EST			0	0	5K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a few large tree limbs.

### PENNSYLVANIA, Northwest

#### Crawford County

Meadville	01	1820EST			0	0	Hail(0.88)
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Nickel size hail was observed just east of Meadville.

#### Erie County

Waterford	06	2235EST			0	0	Hail(0.75)
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Penny size hail was observed five miles north of Waterford.

#### Erie County

North East	07	0305EST			0	0	Hail(0.75)
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Penny size hail was observed.

#### Erie County

Corry	08	1830EST			0	0	6K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed two trees and a few large limbs.

#### Erie County

Union City	08	1830EST			0	0	4K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed a few trees.

#### Erie County

Erie	08	1925EST			0	0	1K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed two large tree limbs just east of Erie International Airport.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>PENNSYLVANIA, Northwest</u></b>									
<b>Erie County</b>									
Lawrence Park	08	2200EST			0	0			Hail(0.75)
Penny size hail was observed two miles south of Lawrence Park.									
<b>Erie County</b>									
Waterford	10	1508EST			0	0			Hail(0.75)
Penny size hail was observed four miles northeast of Waterford.									
<b>Erie County</b>									
Edinboro	10	1510EST 1545EST			0	0	850K		Hail(1.00)
Quarter size hail fell for over 30 minutes causing significant damage at an automobile dealership just north of Edinboro along State Route 99. Over 250 vehicles were damaged by the hail. A building at the dealership also sustained some roof damage.									
<b>Erie County</b>									
Middleboro	10	1520EST 1830EST			0	0	100K		Flash Flood
A cluster of thunderstorms dumped an estimated three to four inches of rain on the central portion of Erie County in a short period of time. Rapid rises in several streams and creeks caused extensive flooding near McKean. A road was washed out just north of the town.									
<b>Erie County</b>									
Waterford	10	1523EST			0	0			Hail(0.75)
Penny size hail was observed two miles northeast of Waterford.									
<b>Erie County</b>									
Corry	10	1605EST			0	0	2K		Thunderstorm Wind (EG50)
Thunderstorm winds downed a couple large trees.									
<b>Erie County</b>									
Waterford	10	1611EST			0	0			Hail(0.75)
Penny size hail was observed two miles northeast of Waterford.									
<b>Erie County</b>									
Wattsburg	10	1640EST			0	0			Hail(0.75)
Penny size hail was observed.									
<b>Crawford County</b>									
Cambridge Spgs	10	1650EST			0	0			Hail(0.88)
Nickel size hail was observed.									
<b>Crawford County</b>									
Venango	10	1750EST			0	0	2K		Thunderstorm Wind (EG50)
Thunderstorm winds downed one tree and one large limb.									
<b>Crawford County</b>									
Centerville	10	1825EST			0	0			Hail(0.88)
Nickel size hail was observed.									
<b>Erie County</b>									
Elgin	20	1720EST			0	0	75K		Thunderstorm Wind (EG50)
A thunderstorm downburst damaged two homes along Nash Hill Road to the south of Elgin. Both homes sustained roof and siding damage and also had some windows broken. Several trees in the area were also downed.									
<b>Crawford County</b>									
Guys Mills	20	1830EST	1	20	0	0	50K		Tornado (F0)
An F0 tornado touched down along Plank Road west of Guys Mills at 7:30 p.m. The tornado damage path was approximately a mile long and 20 to 40 yards wide. Only one house was damaged along the path (by a fallen tree) but dozens of trees were downed.									



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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### PENNSYLVANIA, Northwest

#### Erie County

North East	21	0119EST		0	0	10K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed several large tree limbs.

#### Crawford County

Countywide	21	0400EST 0745EST		0	0	4.1M	Flash Flood
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Thunderstorms dumped heavy rains on Crawford County during the predawn hours of May 21st. This rainfall combined with ground already saturated from heavy rains the previous few days led to widespread flooding across the county. The central portion of the county, including the Meadville area was very hard hit. Rainfall totals of 1 to 3 inches were reported with 1.41 inches measured at the Meadville Airport through 7 a.m. Cooperative observers measured 2.03 inches of rain in Titusville and 1.80 inches in Springboro. Area streams and creeks quickly rose overnight causing several roads to become flooded. A tributary of French Creek quickly went into flood around 5 a.m. after a culvert became clogged with debris. The resulting flooding caused \$2 million in damages to a hospital which had it's ground floor flooded. A nearby hotel was also heavily damaged. Four homes in the same area sustained major damage with a dozen or so more buildings nearby sustaining minor flood damage. Hundreds of additional homes in the county experienced basement flooding. Dozens of roads were either washed out or closed by flooding. Most of these were in the Meadville and Cochranon areas.

#### Crawford County

Conneaut Lake	21	1636EST		0	0	2K	Hail(1.00)
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Quarter size hail was observed.

#### Crawford County

Meadville to Cochranon	21	1640EST 1700EST		0	0	25K	Thunderstorm Wind (EG50)
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Thunderstorm winds downed over a dozen trees along U.S. Route 322 between Meadville and Cochranon.

#### Erie County

Countywide	22	0725EST 1100EST		0	0	2.7M	Flash Flood
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Heavy rains fell on much of Erie County as yet another band of thunderstorms moved through the area just after daybreak. Between one and two inches of rain fell between daybreak and 9 a.m. In Edinboro, around 4.5 inches of rain was measured at the water treatment plant between noon on the 21st and noon on the 22nd. This rain combined with ground already saturated from heavy rains the previous few days led to another round of devastating flooding in the county. Many streams and creeks again left their banks washing out several roads and bridges. Two bridges over French Creek near Mill Village were washed out between 8:30 and 9:00 a.m. Dozens of roads in the county had to be closed by flood waters up to four feet deep. Several people had to be rescued from their homes around 9:45 a.m. after a tributary of French Creek went into flood along Concord Road southeast of Union City. The Mill Village, Edinboro and Union City areas were among the hardest hit areas in the county. In Mill Village, water over two feet deep covered most of the town forcing dozens of people out of their homes. Evacuations were also conducted in Union City and Edinboro. Hundreds of homes, businesses and vehicles were damaged in the county.

#### Crawford County

Countywide	22	0735EST 1700EST		0	0	1.8M	Flash Flood
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Heavy rains fell on much of Crawford County as yet another band of thunderstorms moved through the area just after daybreak. Between one and two inches of rain fell between daybreak and 9 a.m. Spotters in Springboro measured three-quarters of an inch of rain between 7:15 and 7:45 a.m. This rain combined with ground already saturated from heavy rains the previous few days led to another round of devastating flooding in the county. This situation was made even more serious when another cluster of thunderstorms moved through the county during the afternoon hours. Many streams and creeks again left their banks washing out several roads and bridges. Dozens of roads in the county had to be closed by flood waters up to four feet deep. Some of the worst



# National Weather Service

## Storm Data and Unusual Weather Phenomena



May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### PENNSYLVANIA, Northwest

flooding occurred in the Meadville area as both French Creek and Cussewago Creek climbed well above flood stage. The Cambridge Springs and Rockdale Township areas were also hard hit by flooding. Hundreds of homes and vehicles were damaged by the flooding.

#### **Crawford County Countywide**

<b>22</b>	<b>1350EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>	<b>Thunderstorm Wind (EG50)</b>
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Thunderstorm winds downed a couple dozen trees in the county.

#### **Crawford County Countywide**

<b>23</b>	<b>0030EST 0330EST</b>			<b>0</b>	<b>0</b>	<b>500K</b>	<b>Flash Flood</b>
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Heavy rain producing thunderstorms moved into Crawford County around midnight on May 23rd. Up to an inch of rain fell on ground already saturated from rains the previous few days. Flash flooding resumed in the county after streams and creeks once again quickly rose. Several people had to be evacuated after portions of two mobile home parks became flooded. Several roads had to be closed because of flood waters up to two feet deep. Many homes and vehicles were damaged by the flood waters.

#### **Crawford County Custards to Cochrannton**

<b>25</b>	<b>1615EST 1628EST</b>	<b>7</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>3.5M</b>	<b>Tornado (F2)</b>
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An F2 tornado touched down three miles west of Custards and then tracked east for seven miles. The tornado finally lifted just west of Cochrannton near U.S Highway 322. The damage path was continuous, up to 50 yards in width and roughly parallel to State Route 285. Significant damage occurred along the damage path. At least ten homes were damaged with two large farm buildings destroyed. Two factories west of Custards along Delano Road were also heavily damaged. One factory lost over 16,000 square feet of roofing and had much of it's inventory destroyed. The second factory was also heavily damaged on one side. Twelve semi trailers parked outside this factory were overturned and destroyed. Several dozen workers inside the factories had sought shelter prior to the arrival of the tornado and were uninjured. Hundreds of trees and dozens of power poles were downed along the damage path.

#### **Erie County Lake City**

<b>27</b>	<b>2010EST</b>			<b>0</b>	<b>0</b>	<b>Hail(0.75)</b>
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Penny size hail was observed.

#### **Erie County Wattsburg**

<b>27</b>	<b>2030EST</b>			<b>0</b>	<b>0</b>	<b>Hail(0.88)</b>
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Nickel size hail was observed.